BRUHAT BANGALORE MAHANAGARA PALIKE									
BYATARAYANAPURA ZONE									
						Estimate Cost Rs.			10.00 LAKHS
Name of Work: Providing Water Supply in Ward No 08									
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 17-18, Chapter -16, Item No -24, O150A	No	24				**2,450.00**	113.00	276,850.00
2	Transportation of pumping machineries, Chapter 17, Item No 3.18 BWSSB SR (2018-19)	No	24				**24.00**	600.00	14,400.00
3	Rewinding of Submersible Pump Sets **Chapter 17**								
a	(BWSSB SR 17-18 Item No - 1.12) 10 HP	No.	4				**4.00**	5,048.00	20,192.00
b	(BWSSB SR 17-18 Item No - 1.7) 7.5 HP	No.	4				**4.00**	4,085.00	16,340.00
c	(BWSSB SR 17-18 Item No - 1.15) 12.5 HP	No.	5				**5.00**	6,367.00	31,835.00
d	(BWSSB SR 17-18 Item No - 1.17) 15.0 HP	No.	5				**5.00**	7,248.00	36,240.00
	B) Replacement of Motor Parts:								
4	Pump Bowls (BWSSB SR 17-18) Chapter 17 . Item No 2.1	No.	60				**60.00**	338.00	20,280.00
5	Intermediate Piece(I.P) With IP Leaded Bronxe bush (BWSSB SR 17-18 Chapter 17 . Item No 2.2	No .	10				**10.00**	781.00	7,810.00
6	Upper Flange (BWSSB SR 17-18) Chapter 17 . Item No 3.7	No.	10				**10.00**	361.00	3,610.00
7	Lower Housing (BWSSB SR 14.15) **Chapter 17 . Item No 3.9**	No.	10				**10.00**	589.00	5,890.00
8	Guide vane (BWSSB SR 17-18) Chapter 17 . Item No 2.5	No.	75				**75.00**	212.00	15,900.00
9	Impeller Shell (moulded with aluminium and Bronze) (BWSSB SR 17-18) Chapter 17 . Item No 2.6	No .	20				**20.00**	288.00	5,760.00
10	Discharge outlet (D.0) Bearing D.0 Steel Bush P. (BWSSB SR 17-18) Chapter 17 . Item No 2.7	No	20				**20.00**	571.00	11,420.00
11	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) (BWSSB SR 17-18) Chapter 17 . Item No 2.1	No.	20				**20.00**	721.00	14,420.00
12	Pump Couping (Stainless Steel) (BWSSB SR 17-18) Chapter 17 . Item No 2.12	No	20				**20.00**	373.00	7,460.00
13	Stud and Nuts (BWSSB SR 17-18) Chapter 17 . Item No 3.14	Each	45				**45.00**	96.00	4,320.00
14	Motor Base With Pin (BWSSB SR 17-18) Chapter 17 . Item No 3.17	Each	20				**20.00**	445.00	8,900.00
15	Starter with up to 4 to 5 HP (with one year Guarantee) **Chapter 17 . Item No 3.1**	No.	10				**10.00**	6,485.00	64,850.00
16	Rotor with 4 to 5 H P (with one year Guarantee) **Chapter 17 . Item No 3.6**	No .	10				**10.00**	4,804.00	48,040.00
17	Carbon Housing **Chapter 17 . Item No 3.11**	No	20				**20.00**	445.00	8,900.00
18	Thrust bearing block assembly complete with Segment bearing pad. **Chapter 17 . Item No 3.12**	No	20				**20.00**	601.00	12,020.00
19	Oil Seal **Chapter 17 . Item No 2.3**	No.	20				**20.00**	132.00	2,640.00
20	Oil Seal Steel Bush Chapter 17 . Item No 2.4 BWSSB SR (2017-18)	No.	20				**20.00**	145.00	2,900.00
21	D.O Bearing Chapter No 17, I No. 2.7 BWSSB SR(2017-18)	No.	30				**30.00**	571.00	17,130.00
22	Steel Bush Chapter No 17, Item No. 2.8 BWSSB SR (2017-18)	No	80				**80.00**	192.00	15,360.00

23	Allen Screw Chapter No 17, Item No. 2.9 BWSSB SR (2017-18)	No.	35				**35.00**	84.00	2,940.00
24	Pump Key (Stainless Steel) Chapter No 17, Item No.2.11 BWSSB SR (2017-18)	No	15				**15.00**	132.00	1,980.00
25	Non - return valve (NRV) assembly complete with rubber '0' Ring , Chapter No 17 Item No. 2.13 BWSSB SR (2017-18)	No.	15				**15.00**	625.00	9,375.00
26	Cable Guard Chapter No-17, Item No 2.14 BWSSB SR (2017-18)	No.	20				**20.00**	181.00	3,620.00
27	Strainer Chapter No 17 / Item No 2.15 BWSSB SR (2017-18)	No	20				**20.00**	212.00	4,240.00
28	Brass Filter Chapter No 17 / Item No 2.16 BWSSB SR (2017-18)	No.	20				**20.00**	132.00	2,640.00
29	Labour Chargesw (Over Hauling Only) Chapter No 17 / Item No 2.17 BWSSB SR (2017-18)	No .	20				**20.00**	600.00	12,000.00
30	Re-erection charges of pumping machineries including overhauling and pointing Chapter No 17 / Item No 3.19 BWSSB SR (2017-18)	Each	20				**20.00**	1,202.00	24,040.00
31	Lock Ring Chapter No 17 / Item No 3.10 BWSSB SR (2017-18)	Each	15				**15.00**	96.00	1,440.00
32	a) Carbon Housing Chapter No 17 / Item No 3.11 APBWSSB SR (2017-18)	Each	15				**15.00**	445.00	6,675.00
33	Top Carbon/Ferrodo padding Chapter No 17 / Item No 3.12 APBWSSB SR (2017-18)	Each	15				**15.00**	1,922.00	28,830.00
34	Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush .Chapter No 17 / I No. 10.3.15 APBWSSB SR (2017-18)	Each	20				**20.00**	445.00	8,900.00
35	Circillps Chapter No 3.16 / I No.3.16 BWSSB SR (2017-18)	Each	20				**20.00**	55.00	1,100.00
	Genaral Itmes								
36	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.	Mtr							
	3C X 6.0Sq.mm		1	200			**200.00**	205.00	41,000.00
37	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.	Each							
	50-63 Amps DP		20	1			**20.00**	1,355.00	27,100.00
38	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. Item No 5.7.3 SR 2018-19	No.							
	63 Amps		10	3			30.00		
							30.00	227.00	6,810.00

39	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark 50mm Gate wheel Valve. (PWD SR 2015-16, P.NO.XXIV, Sl.no, 673)	No's							
			5	3			15.00	1,482.21	22,233.00
	Basic Rate	**1398.3**							
	Add 6% Area Weightage	**83.9**							
		1482.2							
40	Earthwork excavation for foundation of buildings, water supply, sanitary lines and 41'ectrical conduits either in pits or in trenches 1.5 M AND above in Width, in Ordinary Soil not exceeding 1.5m in Depth including Dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR 18-19)	Cum							
			1	150	0.45	0.75	50.63		
							50.63	354.97	17,970.00
	Basic Rate	**299**							
	Add 6% Area Weightage	**17.94**							
	Sub Total	**316.94**							
	12% GST	**38.03**							
	Total	**354.97**							
41	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with Mtr all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO 94, I.NO 13.73.3, PWD SR 18-19)	Mtr							
	75 mm dia 6 KSC PVC pipe		1	150			150.00		
							150.00	504.56	75,684.00
	Basic Rate	**425**							
	Add 6% Area Weightage	**25.50**							
	Sub Total	**450.50**							
	12% GST	**54.06**							
	Total	**504.56**							
42	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO 6, I.NO - 2.11, PWD SR 18-19)	Cum							
				Qty. Vide Item No.			**50.63**	143.65	7,272.00
	Basic Rate	**121**							
	Add 6% Area Weightage	**7.26**							
	Sub Total	**128.26**							
	12% GST	**15.39**							
	Total	**143.65**							

43	KSRB 13.6.3-6 Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 97 /1.13.37 PWD SR -2018-19	Each							
			5				5.00	2,064.54	10,323.00
	Basic Rate	**1739**							
	Add 6% Area Weightage	**104.34**							
	Sub Total	**1843.34**							
	12% GST	**221.20**							
	Total	**2064.54**							
							Total Construction Cost		**989,639.00**
	1 % Cost towards Preparation of DPR and PMC / Third Party inspection LS								**9896.39**
								Sub Total	**999535.39**
							Miscellaneous and rounding off		**464.61**
								Total	**1000000.00**

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR 2016-17 BWSSB S.R.of Rural Engineering Department
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer

Administrative Approval

Accorded For Rs 10.00 Lakhs only
Head of A/C P3293
CER NO : 09 Dt: 22.05.2020

TA

CE (VNK)

TECHNICAL SANCTION
Accorded For Rs. 10.00 Lakhs only
Head of A/c. P3293
Div. Ref. No. 72/20-21 Date 26/5/2020
AE 26/05
EE(BTP) 26/05